

FIG. 1A
(PRIOR ART)

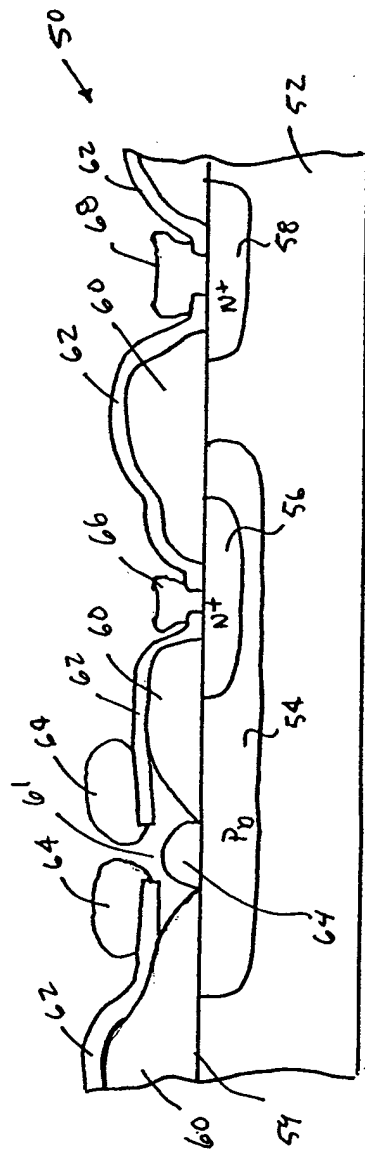


FIG. 1B
(PRIOR ART)

Figure 1 shows the typical microstructures of the as-cast and heat-treated samples. The as-cast sample shows a typical dendritic structure, while the heat-treated samples show a more uniform, fine-grained structure. The grain size of the heat-treated samples is significantly smaller than that of the as-cast sample, indicating a successful grain refinement process.

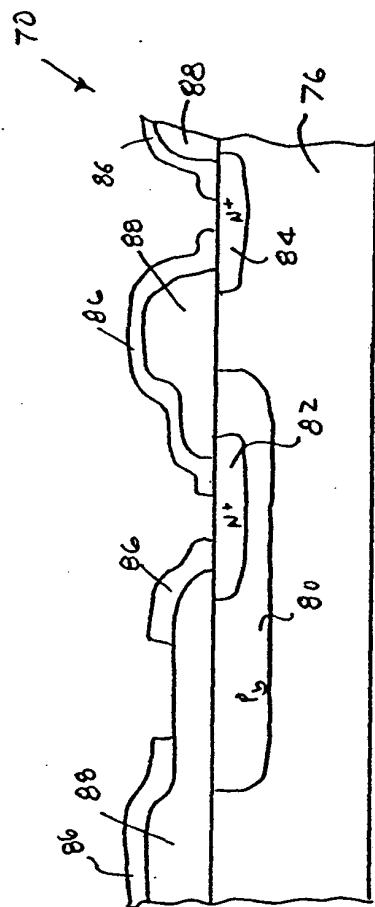


FIG. 2A
(PRIOR ART)

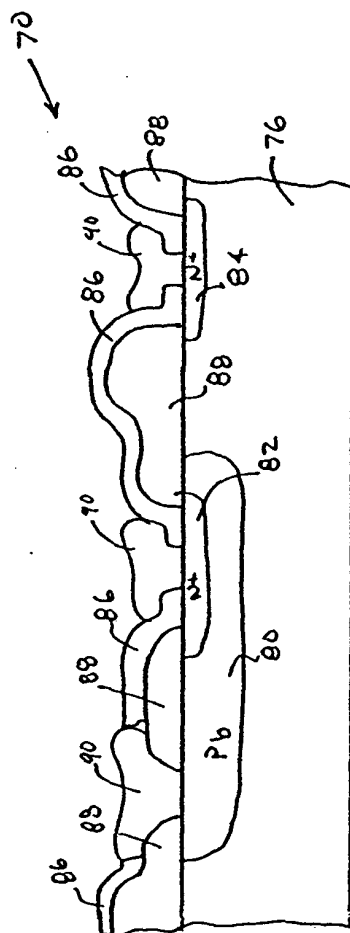
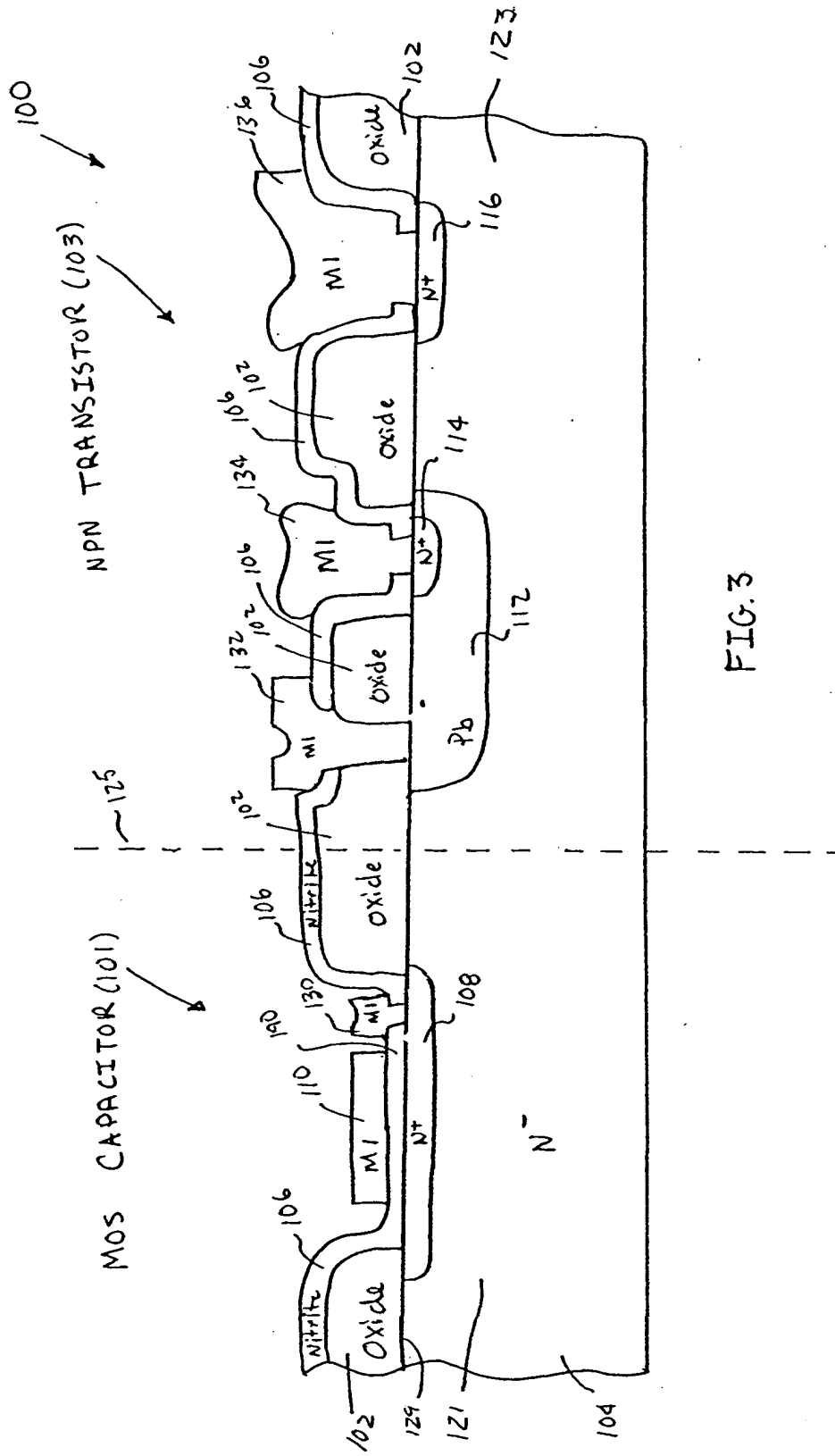
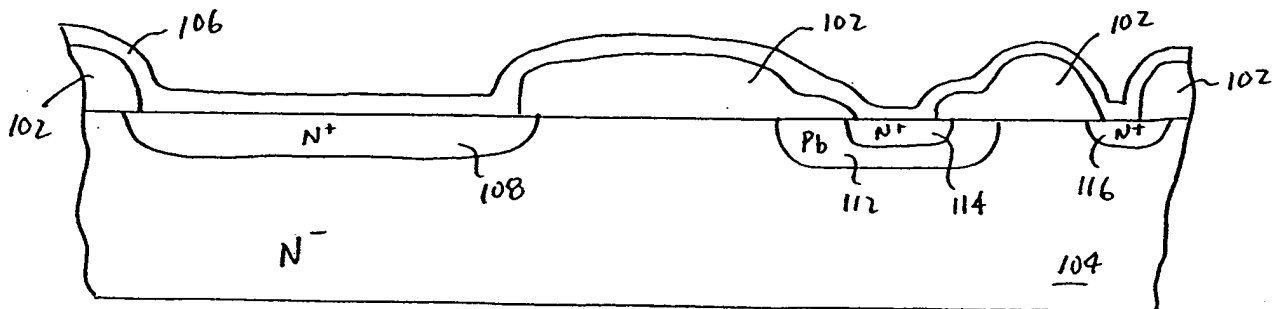
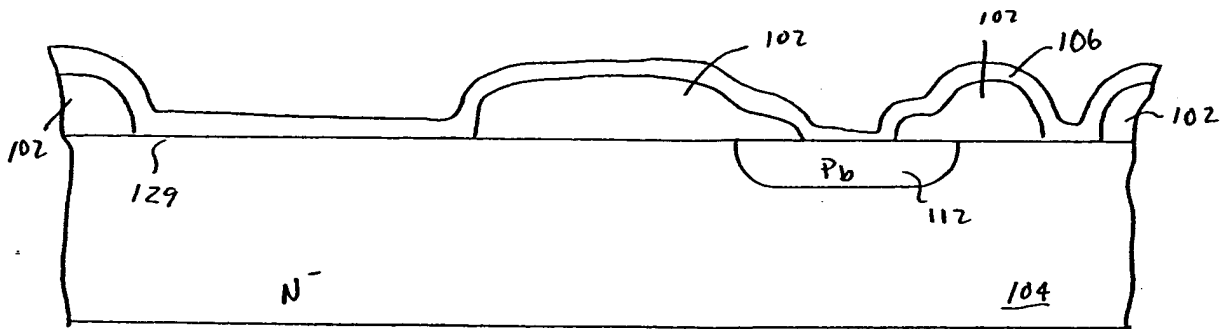
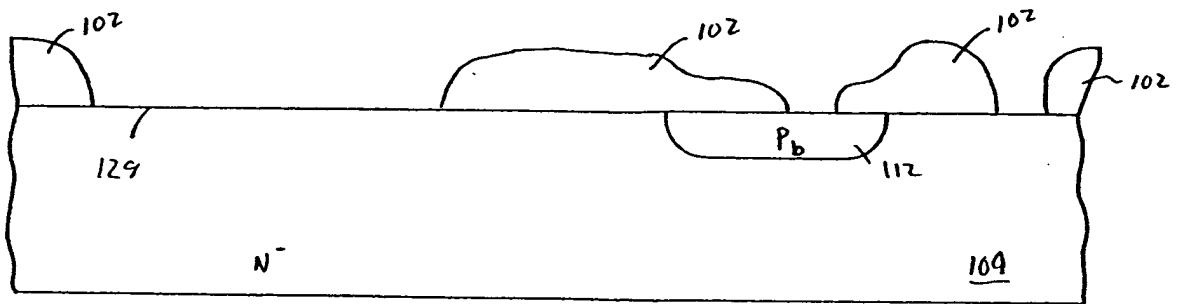
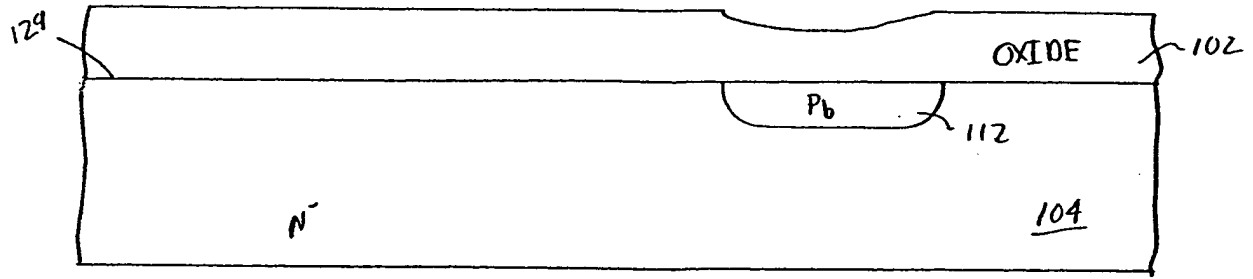


FIG. 2B
(PRIOR ART)





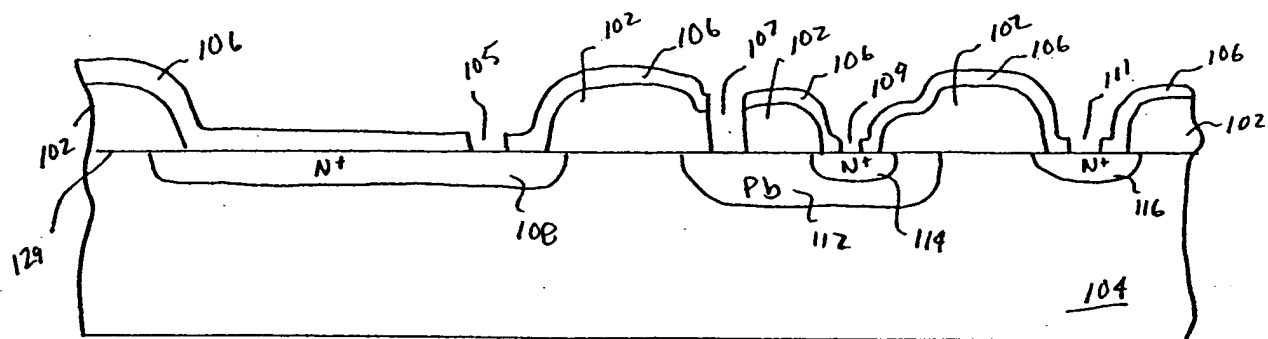


FIG. 4E

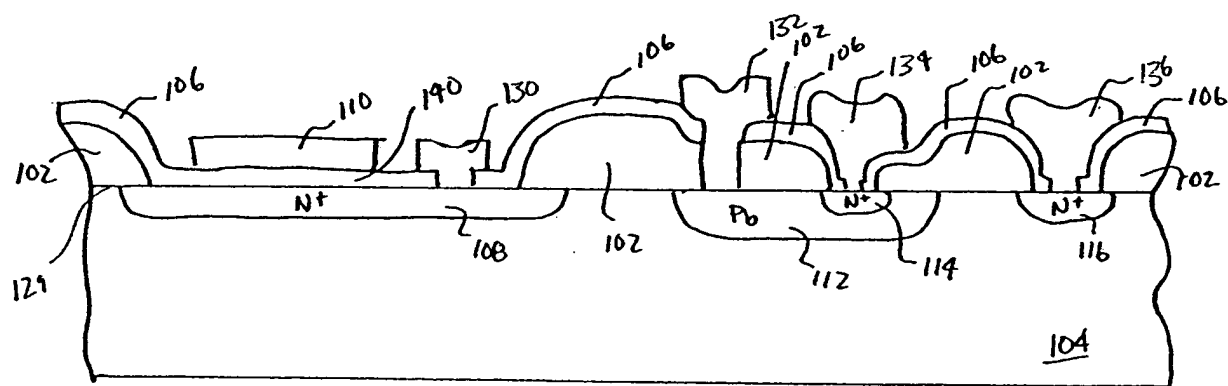


FIG. 4F

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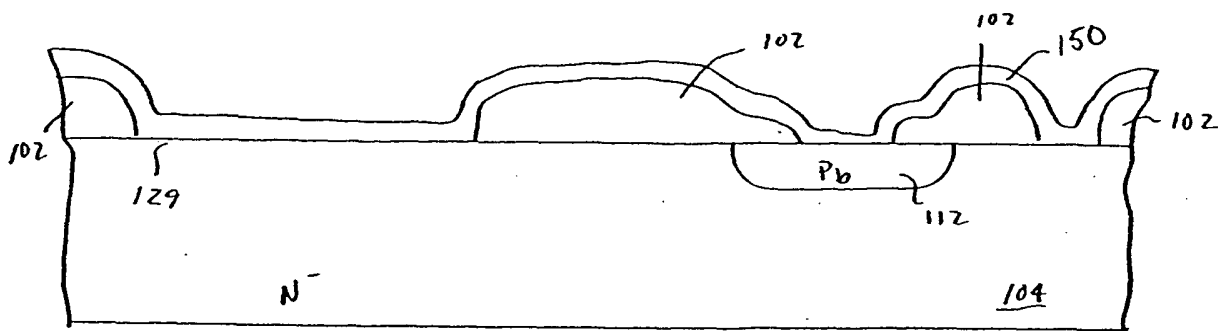


FIG. 5A

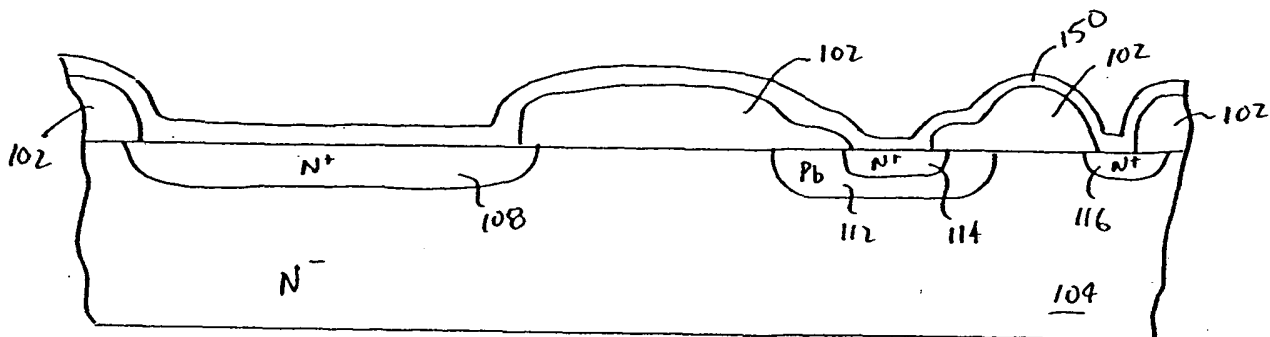


FIG. 5B

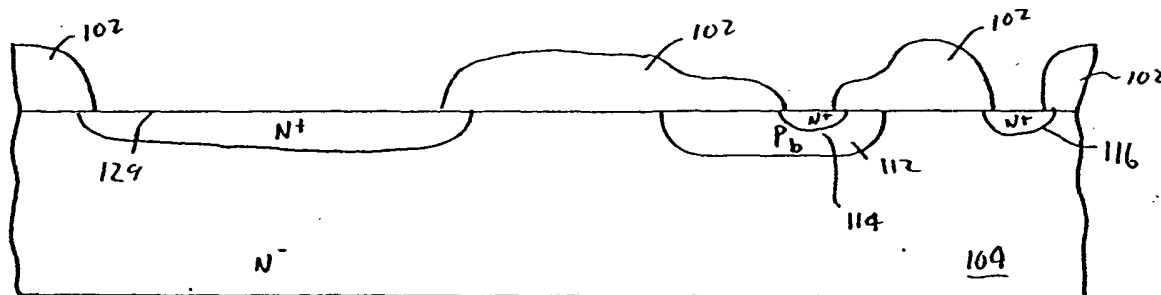


FIG. 5C

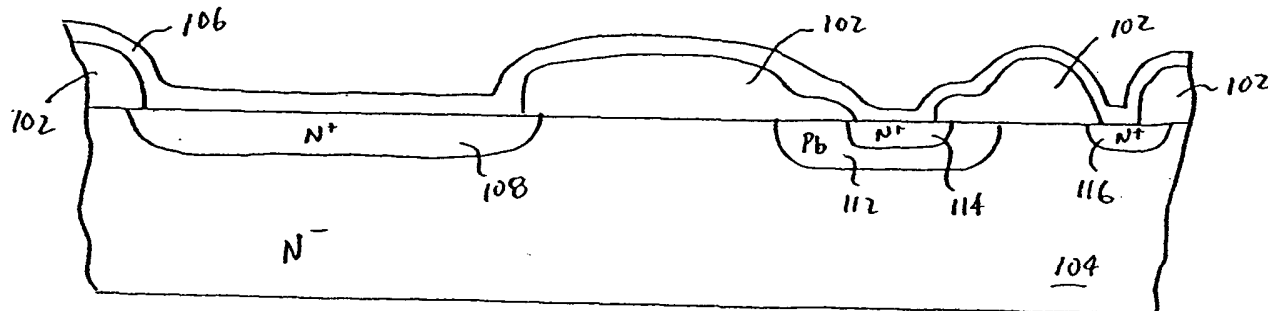
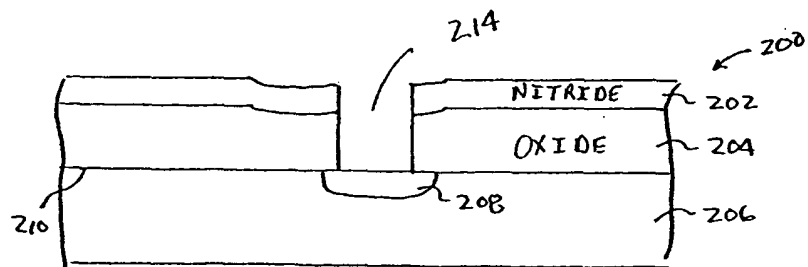
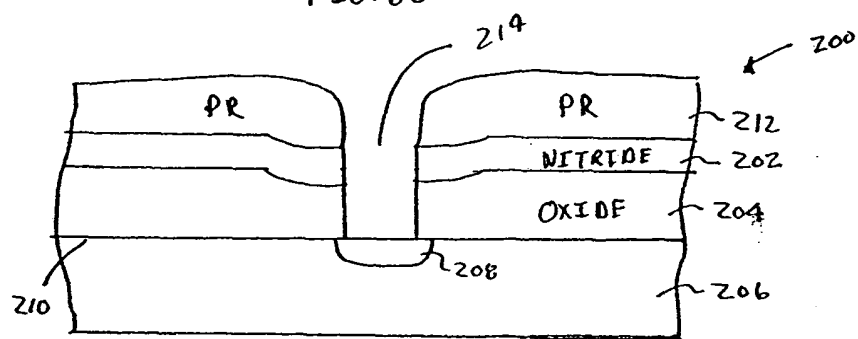
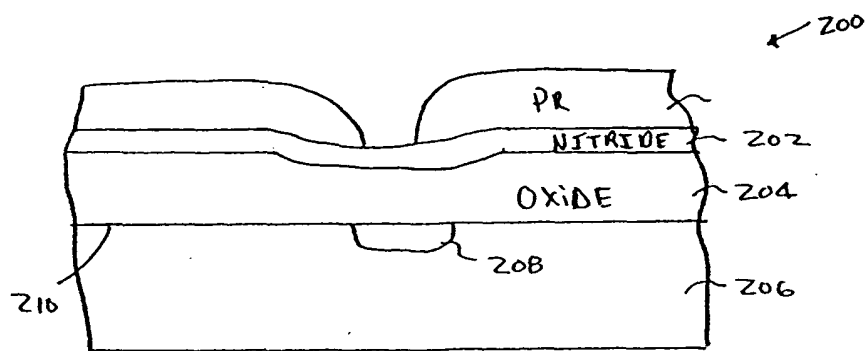
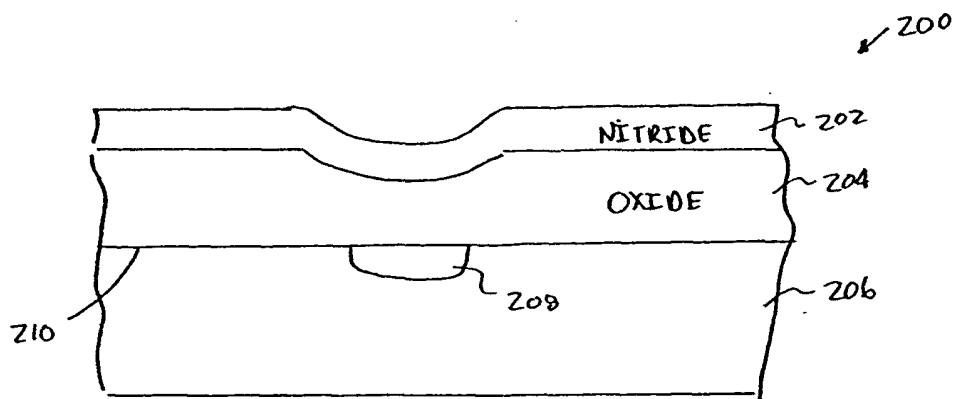


FIG. 5D



A diagram showing a rectangular frame. Inside the frame, the number 302 is written in the upper right corner. A line points from the label 304 to the right edge of the frame.

FIG. 7A
(PRIOR ART)

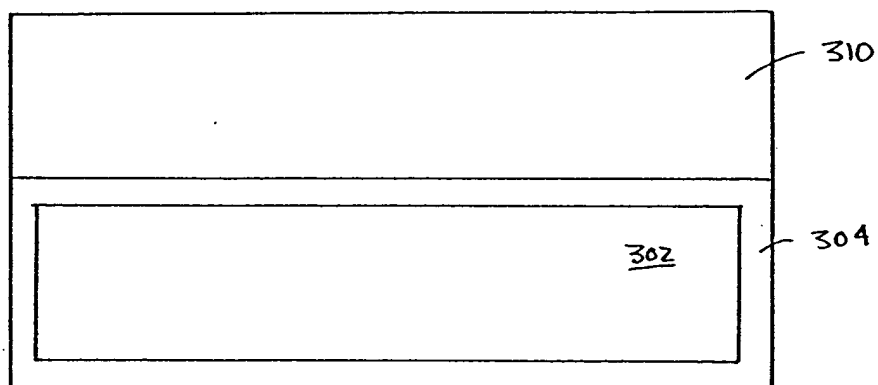


FIG. 7B
(PRIOR ART)

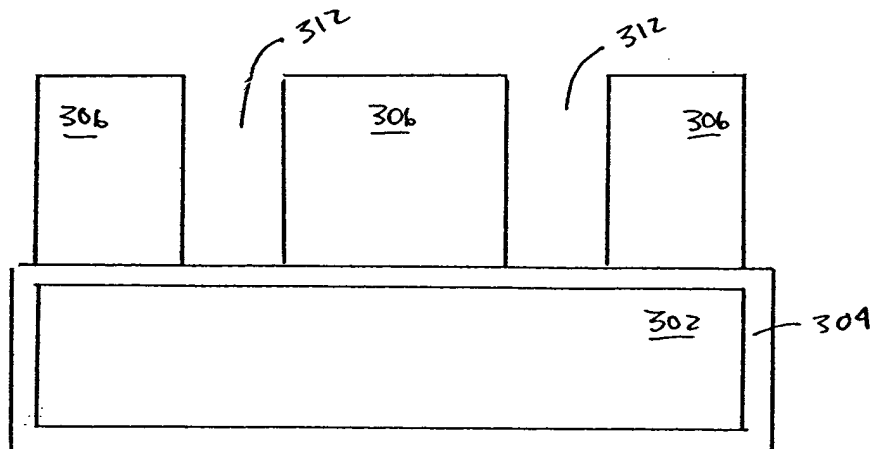


FIG 7C
(PRIOR ART)

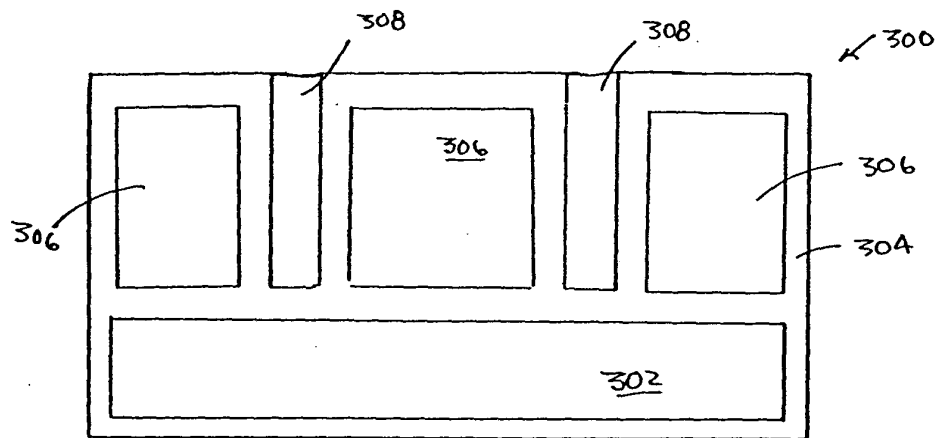


FIG. 7D
(PRIOR ART)

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